ABSTRACT

In a signal processing device which performs data compression, a thinning circuit 1 generates thinned data by thinning input PCM data. For example, when a sampling rate fs of the PCM data (original data) is fs = 10 Hz, thinned data of fs = 1 Hz is generated. The determination circuit 2 controls the selection circuit 4 so that, based on the following expression:

$$TOTAL1 = |X(n)-X(n-1)|+|X(n-1)-X(n-2)|+ \cdots + |X(n-8)-X(n-9)|$$

5

10

if TOTAL1 > C1, the input PCM data is selected, and if otherwise the thinned data is selected. The selected data and the determination result information of the determination circuit 2 are written into a memory 3. Therefore, data compression is performed with respect to original data with a simple circuit configuration and without losing required information of the original data.